

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2019 Office of the Secretary Of Defense **Date:** February 2018

Appropriation/Budget Activity 0400: Research, Development, Test & Evaluation, Defense-Wide / BA 4: Advanced Component Development & Prototypes (ACD&P)					R-1 Program Element (Number/Name) PE 0603923D8Z / Coalition Warfare Program							
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
Total Program Element	52.446	9.789	10.740	8.528	-	8.528	12.501	12.226	11.439	11.649	Continuing	Continuing
923: Coalition Warfare	52.446	9.789	10.740	8.528	-	8.528	12.501	12.226	11.439	11.649	Continuing	Continuing

Note

The FY 2019 funding request was reduced by \$2.486 million to account for the availability of PY execution balances.

A. Mission Description and Budget Item Justification

The Coalition Warfare Program (CWP) supports DoD organizations that: 1) work with foreign partners to collaboratively address strategic technology gaps for current and future missions; 2) develop interoperability solutions for coalition operations; and 3) develop and strengthen defense relationships. CWP is the only Office of the Secretary of Defense (OSD) program with this mission. Coalition warfare and multinational operations are fundamental features of the U.S. National Security Strategy. Coalitions provide a broad base of technological, operational, and logistical support for military operations and ease the U.S. financial and manpower burdens associated with meeting military goals and objectives. Coalitions and relationships with international partners are high priorities for the nation and the Department of Defense.

CWP supplements a U.S. Government proponent's funding for cooperative efforts, ensuring U.S. funds are sufficient to complete the engagement with the foreign partner(s). When CWP funds are used to help fund a cooperative project, that project leverages technical and financial contributions of the foreign partner(s) and speeds the development and delivery of technical solutions to the warfighter. In its seventeen-year history, CWP has leveraged \$3 of foreign partner funding from 75 foreign partners and \$2 of other U.S. Government funding for every \$1 CWP has invested in cooperative projects. CWP funding enables DoD project teams to move a technology into the next stage of development or to complete and transition a technology to operational forces. These projects may also form the basis for future cooperation with international partners.

B. Program Change Summary (\$ in Millions)	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Previous President's Budget	10.126	10.740	11.014	-	11.014
Current President's Budget	9.789	10.740	8.528	-	8.528
Total Adjustments	-0.337	0.000	-2.486	-	-2.486
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-0.011	-			
• SBIR/STTR Transfer	-0.326	-			
• FFRDC Transfer	-	-	-0.074	-	-0.074

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2019 Office of the Secretary Of Defense				Date: February 2018	
Appropriation/Budget Activity		R-1 Program Element (Number/Name)			
0400: Research, Development, Test & Evaluation, Defense-Wide I BA 4: Advanced Component Development & Prototypes (ACD&P)		PE 0603923D8Z I Coalition Warfare Program			
• Other Program Adjustments		-	-	-2.412	-2.412
<u>Change Summary Explanation</u> The FY 2019 funding request was reduced by \$2.486 million to account for the availability of PY execution balances. Funds rephased from FY19 to FY20 and FY21 to aid in increasing program execution rates closer to the DoD benchmarks.					

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2019 Office of the Secretary Of Defense										Date: February 2018		
Appropriation/Budget Activity 0400 / 4					R-1 Program Element (Number/Name) PE 0603923D8Z / <i>Coalition Warfare Program</i>				Project (Number/Name) 923 / <i>Coalition Warfare</i>			
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
923: <i>Coalition Warfare</i>	52.446	9.789	10.740	8.528	-	8.528	12.501	12.226	11.439	11.649	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Coalition Warfare Program (CWP) supports DoD organizations that: 1) work with foreign partners to collaboratively address strategic technology gaps for current and future missions; 2) develop interoperability solutions for coalition operations; and 3) develop and strengthen defense relationships. CWP is the only Office of the Secretary of Defense (OSD) program with this mission. Coalition warfare and multinational operations are fundamental features of the U.S. National Security Strategy. Coalitions provide a broad base of technological, operational, and logistical support for military operations and ease the U.S. financial and manpower burdens associated with meeting military goals and objectives. Coalitions and relationships with international partners are high priorities for the nation and the Department of Defense.

CWP supplements a U.S. Government proponent's funding for cooperative efforts, ensuring U.S. funds are sufficient to complete the engagement with the foreign partner(s). When CWP funds are used to help fund a cooperative project, that project leverages technical and financial contributions of the foreign partner(s) and speeds the development and delivery of technical solutions to the warfighter. In its seventeen-year history, CWP has leveraged \$3 of foreign partner funding from 75 foreign partners and \$2 of other U.S. Government funding for every \$1 CWP has invested in cooperative projects. CWP funding enables DoD project teams to move a technology into the next stage of development or to complete and transition a technology to operational forces. These projects may also form the basis for future cooperation with international partners.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2017	FY 2018	FY 2019
Title: Coalition Warfare Program (Continuing Projects)	9.789	10.740	8.528
<p>Description: CWP provides funding on a competitive basis to DoD organizations to conduct cooperative research, development, test, and evaluation projects with foreign partners. The goals of the CWP program are to: collaboratively address strategic technology gaps for current and future missions, develop interoperability solutions for coalition operations, and strengthen current defense partnerships and developing new relationships. CWP selects projects for funding through an annual competitive process in accordance with Department of Defense and Combatant Command needs.</p> <p>Overall, the program provided additional funding to projects that began in earlier selection cycles. Currently, the funded portfolio includes projects with 12 different foreign partners.</p> <p>Including prior year project selections, for FY 2018 selections, the following projects will encompass CWP funding in FY 2018 and FY 2019:</p>			

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2019 Office of the Secretary Of Defense		Date: February 2018	
Appropriation/Budget Activity 0400 / 4	R-1 Program Element (Number/Name) PE 0603923D8Z / <i>Coalition Warfare Program</i>	Project (Number/Name) 923 / <i>Coalition Warfare</i>	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2017	FY 2018
<ul style="list-style-type: none"> - Artic High Frequency Surveillance (US Air Force) - Autonomous Tunnel Exploitation (DTRA) - Digital Enhanced Lowlight Tactical Asset – Individual (US Army) - Terrestrial Free-Space Laser Communication Network (US Army) - Micro-Satellite Maritime Domain Awareness using Imagery and Automatic Identification System (US Navy) - Broad Spectrum Detection of Maritime Traffic Using Hyperspectral Imagery (US Navy) - Low-Cost Space Solar Cell Calibration by High Altitude Balloon (US Air Force) - Collaboration Initiatives <p>FY 2018 Plans: Completion of efforts that will improve directed energy weapons interface with ships' electrical power, maintain warfighters' access to position, navigation, and timing signals when GPS is unavailable, and improve tracking of space objects and debris in real-time.</p> <p>FY 2019 Plans: Completion of efforts that will reduce size, weight, and power of imaging sensors, develop autonomous undersea power stations and improve capability of scalable warhead for an unmanned air vehicle.</p> <p>FY 2018 to FY 2019 Increase/Decrease Statement: FY 2018 to FY 2019 decrease is driven by directed reductions to account for the availability of PY execution balances.</p>			
Accomplishments/Planned Programs Subtotals		9.789	10.740
C. Other Program Funding Summary (\$ in Millions) N/A			
Remarks			
D. Acquisition Strategy The Combatant Commands, Services, Defense Agencies, and the Office of the Secretary of Defense nominate candidate projects on an annual basis. CWP provides selected projects up to three years of funding. The Program selects projects that address DoD priorities and meet the needs and requirements specified by the Joint Staff and the Combatant Commanders. Projects have equitable contributions from international partners, strong potential for transition, and contribute to allied interoperability and/or meet a user need.			
E. Performance Metrics After successful completion of the competitive nomination process, initial project funding is dependent on receipt of project documentation, which includes financial information, project plan, description of project team, etc. Continued project funding is dependent on compliance with CWP requirements, which include: adequate			

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2019 Office of the Secretary Of Defense		Date: February 2018
Appropriation/Budget Activity 0400 / 4	R-1 Program Element (Number/Name) PE 0603923D8Z / <i>Coalition Warfare Program</i>	Project (Number/Name) 923 / <i>Coalition Warfare</i>
<p>progress toward each project's stated goals, timely reporting on financial status and project activities, financial document close-out, provision of updated project plans and charts, and progress towards transition goals.</p>		

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2019 Office of the Secretary Of Defense													Date: February 2018		
Appropriation/Budget Activity 0400 / 4						R-1 Program Element (Number/Name) PE 0603923D8Z / <i>Coalition Warfare Program</i>				Project (Number/Name) 923 / <i>Coalition Warfare</i>					

Product Development (\$ in Millions)				FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Coalition Warfare Program Project Product Development Costs	Various	Various : Various	35.553	7.423		8.800		6.533		-		6.533	-	-	-
Subtotal			35.553	7.423		8.800		6.533		-		6.533	-	-	N/A

Test and Evaluation (\$ in Millions)				FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Coalition Warfare Program Project Test and Evaluation Costs	Various	Various : Various	9.766	1.556		0.848		0.875		-		0.875	-	-	-
Subtotal			9.766	1.556		0.848		0.875		-		0.875	-	-	N/A

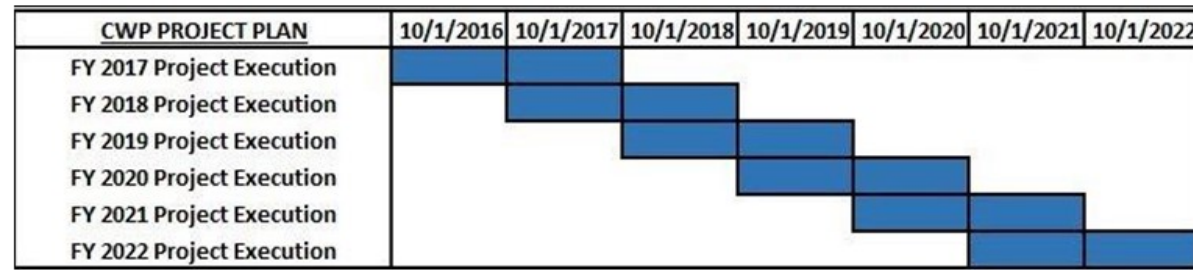
Management Services (\$ in Millions)				FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Coalition Warfare Program Project Management Services Costs	Various	Various : Various	7.127	0.810		1.092		1.120		-		1.120	-	-	-
Subtotal			7.127	0.810		1.092		1.120		-		1.120	-	-	N/A

			Prior Years	FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			52.446	9.789		10.740		8.528		-		8.528	-	-	N/A

Remarks															

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2019 Office of the Secretary Of Defense			Date: February 2018
Appropriation/Budget Activity 0400 / 4	R-1 Program Element (Number/Name) PE 0603923D8Z / <i>Coalition Warfare Program</i>	Project (Number/Name) 923 / <i>Coalition Warfare</i>	



UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2019 Office of the Secretary Of Defense			Date: February 2018
Appropriation/Budget Activity 0400 / 4	R-1 Program Element (Number/Name) PE 0603923D8Z / <i>Coalition Warfare Program</i>	Project (Number/Name) 923 / <i>Coalition Warfare</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
FY 2017 CWP Project Execution	1	2016	4	2017
FY 2018 CWP Project Execution	1	2017	4	2018
FY 2019 CWP Project Execution	1	2018	4	2019
FY 2020 CWP Project Execution	1	2019	4	2020
FY 2021 CWP Project Execution	1	2020	4	2021
FY 2022 CWP Project Execution	1	2021	4	2022